

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
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Hajime Kondou)	Group Art Unit: 1796
)	
Application No.: 10/537,698)	Examiner: MULCAHY PETER D
)	
Filed: June 6, 2005)	Confirmation No.: 7192
)	
For: NATURAL RUBBER LATEX, NATURAL RUBBER, RUBBER COMPOSITION, AND TIRE USING THE SAME		

DECLARATION PURSUANT TO 37 C.F.R. § 1.132

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Takahiko Matsui, declare the following:

1. I am the engineer of the subject matters described and claimed in the above-identified application.

2. I am a graduate of The University of Tokyo, Graduate School of Frontier Sciences. My discipline is organic synthetic chemistry. I researched organic synthesis of RNA.

3. I have been employed by Bridgestone Corporation since 2006, and have been conducting research and development in the field of rubber and tire, especially Natural Rubber until the present time.

4. I am familiar with the prosecution of the present application, particularly the Official Action notified on April 7, 2008 in which the Examiner rejected the claims in the above-identified application under 35 U.S.C. 103(a) over a reference of the prior art.

5. The following experiment was carried out by me.

Experiment

It was analyzed the serum obtained at a coagulation step. The coagulation step is described in lines from 10 to 13, page 16 of the specification of the present application. Since the glucans contained in the latex are decomposed by enzyme treatment, the serum comprises a monosaccharide of polysaccharide origin which is water solubility. Therefore, the monosaccharide which is included in each of the serum of Examples 1, 2, 3, 4, Comparative Example 1, and Reference Example 1 was measured with gas chromatography. The measurement conditions of the gas chromatography are as follows.

Analysis machine: Hewlett-Packard HP5890H, Column: SP-238(Sigma-Aldrich Japan Co., Ltd.), Carrier gas: He, Column temperature: 80° C to 275° C, Detection mode: FID, and Internal standard: 2-Deoxyglucitol.

The results of the measurement of a peak area ratio of the monosaccharide are shown in the following Table.

Sample	a peak area ratio
Example 1	5.40
Example 2	5.25
Example 3	3.83
Example 4	3.65
Comparative Example 1	3.04
Reference Example 1	4.44

There is more the peak area ratio of the monosaccharide of Example 1 or 2 with amylase treatment than Reference Example 1 thereof. There is more the peak area ratio of the monosaccharide of Example 1-3 or 4 than Comparative Example 1 thereof. It could be understood that glucans contained in the latex are decomposed by amylase or cellulase.

6. I further declare that all statements made herein of my own knowledge are true and that all statements on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

Date: August 22, 2008 By: Takahiko Matsui

Takahiko Matsui
(Print Declarant's name)